CMPS 1044 - PROBLEM SOLVING HOMEWORK
Complete the 4 Problem solving Steps for each problem.

1. Read 2 numbers. Calculate and print the sum, product, and difference of the 2 numbers with appropriate comments in the output.

2. Modify problem 1 to calculate for 25 pairs of numbers.

3. Given the principle, interest rate and time, compute the simple interest paid on an account. (I = P*R*T)

4. Modify problem 2 to calculate the interest for all customer accounts of the bank.

5. Given the lengths of the 2 legs of a right triangle, compute the hypotenuse.

6. Each person at a party will drink 24 ounces of punch. Read in the number of persons to attend and print out the number of gallons of punch required.

7. At Podunk University a student is enrolled in a course in which the final grad is either a P or an F (for Pass or Fail). The grade is determined by adding the scores of 3 tests, T1, T2, and T3. If the sum is greater than 225, a grade of P is assigned; otherwise a grade of F is assigned. Read the 3 test scores of a student and print out his sum and grade.

8. Repeat problem 7 for a class of 35 students.

9. A salesman receives a commission of 10% on all sales if he has sold at least $10,000 worth of products, but only 8.5% if he sells less than $10,000. Read the salesman’s name and the sales total. Print out the name and amount of commission.

10. Julie’s Catering Service charges $10 per adult and $6 per child to cater a birthday buffet. Enter the number of adults and children to attend the party and compute the amount to charge. Add in 8.25% sales tax before printing the bill.